



**Australian Government**

# **MSTDE3004 Generate artwork for computerised embroideries**

**Release: 1**

# MSTDE3004 Generate artwork for computerised embroideries

## Modification History

Release 1. Supersedes and is equivalent to LMTDE3004A Generate artwork for computerised embroideries

## Application

This unit of competency covers the skills and knowledge required to obtain and create images suitable for computerised embroidery production.

The unit of competency includes scanning, creating and obtaining images; importing into digitising software for embroidery production; and producing a sample to confirm image suitability.

Work may be conducted in a variety of environments, such as operational workplace activities, or home-based activities.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

## Pre-requisite Unit

Nil

## Competency Field

Digitising and computerised embroidery

## Unit Sector

Not applicable

## Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

**1 Determine job requirements**

- 1.1 Follow standard operating procedures (SOPs)
- 1.2 Comply with work health and safety (WHS) requirements at all times
- 1.3 Use appropriate personal protective equipment (PPE) in accordance with SOPs
- 1.4 Identify job requirements from specifications, drawings,

job sheets or work instructions

- |   |                                                |     |                                                                                                                                           |
|---|------------------------------------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------|
| 2 | <b>Prepare to generate artwork</b>             | 2.1 | Identify design and embroidery considerations for image selection                                                                         |
|   |                                                | 2.2 | Establish software and technology requirements to obtain images                                                                           |
|   |                                                | 2.3 | Source images and download from internet sources                                                                                          |
|   |                                                | 2.4 | Source hard copy images and scan into digital format                                                                                      |
|   |                                                | 2.5 | Assess image quality and identify opportunity for improvements or alterations                                                             |
|   |                                                | 2.6 | Confirm copyright status of selected images                                                                                               |
|   |                                                | 2.7 | Assess suitability of images for digitising and confirm capacity of software                                                              |
|   |                                                |     |                                                                                                                                           |
| 3 | <b>Create or edit artwork</b>                  | 3.1 | Create artwork and convert into digital format                                                                                            |
|   |                                                | 3.2 | Navigate software to edit and alter images                                                                                                |
|   |                                                | 3.3 | Make alterations and/or improvements and save file in suitable file types                                                                 |
|   |                                                | 3.4 | Import image into digitising software                                                                                                     |
|   |                                                | 3.5 | Enter artwork specifications into digitising software                                                                                     |
|   |                                                |     |                                                                                                                                           |
| 4 | <b>Complete embroidery and review outcomes</b> | 4.1 | Select fabric, stabiliser, toppings and backings, needles, thread and hoop types, and use according to the design production requirements |
|   |                                                | 4.2 | Create embroidery and inspect against design specifications                                                                               |
|   |                                                | 4.3 | Confirm digitising specifications and process as appropriate to achieve embroidery outcomes in a simple and fully automated manner        |
|   |                                                | 4.4 | Minimise and dispose of waste according to environmental guidelines                                                                       |

- 4.5 Seek feedback and integrate into outcomes
- 4.6 Save and file artwork according to the workplace filing requirements

## Foundation Skills

This section describes those required skills (language, literacy and numeracy) that are essential to performance.

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

## Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

- Workplace procedures include one or more of the following:**
- requirements prescribed by legislation, awards, agreements and conditions of employment
  - SOPs
  - work instructions
  - oral, written and visual communication
  - quality practices, including responsibility for maintenance of own work quality and contribution to quality improvement of team or section output
  - housekeeping
  - tasks related to environmental protection, waste disposal, pollution control and recycling
  - WHS practices

- Australian Standards include:**
- the relevant industry or Australian Standards that are current at the time this unit is being undertaken

- Design and embroidery considerations include one or more of the following:**
- size
  - shape
  - quality
  - use of colour
  - editing options
  - image inclusions
  - compatibility with client profile

- complexity/simplicity
- production cost

**Artwork includes one or more of the following:**

- clipart
- wingdings
- text
- borders
- pictures

**File types include one or more of the following:**

- .jpeg
- .gif
- .tiff
- .bmp
- .wmf
- .emf
- .png

## Unit Mapping Information

Release 1. Supersedes and is equivalent to LMTDE3004A Generate artwork for computerised embroideries

## Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a203ec5c-de7d-406b-b3e1-8f1a9b76e92e>

# Assessment Requirements for MSTDE3004 Generate artwork for computerised embroideries

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## Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria and include:

- reading and following work instructions, standard operating procedures (SOPs), safe work practices and other reference material
- applying relevant standards
- setting up and using a scanner
- accessing and obtaining a range of images from internet sources
- complying with copyright obligations for using images
- importing selected artwork into digital format
- creating or editing artwork using suitable software
- applying creativity to use of colour, texture, shape, balance and composition
- converting images into digital format
- creating at least five (5) embroidery samples on different fabrics that comply with design specifications
- saving and filing artwork according to the workplace procedures.

## Knowledge Evidence

- Evidence must be provided that demonstrates knowledge of:
- safe work practices and procedures and use of personal protective equipment (PPE)
- relevant Australian Standards
- a range of machines: microprocessor or computer control
- embroidery machines: domestic (single or multi-needle) or commercial (single or multi-head) machines
- basic sewing machine operations
- software functionality
- computer basic operations
- computer navigation to access and manipulate an image
- suitability of images to be digitised and limitations of software
- artwork sources
- access to embroidery designs
- fabric types and properties:
  - woven

- non-woven
- knits
- lightweight
- heavyweight
- hoop types and uses:
  - tubular
  - sash
  - screw
  - cap
  - square
  - round
  - spring
- needle types and uses:
  - standard
  - metalfil
  - embroidery eye
  - stretch
- thread types:
  - polyester
  - metallic
  - rayon
  - cotton
- stabilisers, toppings and backings:
  - water soluble
  - tear away
  - iron on
  - cut away
  - varying weights
- range of digitising techniques
- copyright
- practices for recording and reporting.

## Assessment Conditions

- Assessors must:
  - satisfy the assessor competency requirements that are in place at the time of the assessment, as set by the VET regulator
  - have vocational competency in generating artwork for computerised embroideries, at least to the level being assessed, with relevant industry knowledge and experience.

- Assessment should occur in operational workplace situations. Where this is not possible, or where personal safety or environmental damage are limiting factors, assessment must occur in a sufficiently rigorous simulated environment reflecting realistic operational workplace conditions. This must cover all aspects of workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.
- Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.
- Conditions for assessment must include access to all tools, equipment, materials and documentation required, including relevant workplace procedures, product and manufacturing specifications associated with this unit.

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